

- 1 1. An apparatus for switching library managers, the apparatus comprising:
2 a communications module configured to receive a directive to transition library
3 management functions from a first library manager to a second library manager, the
4 communications module further configured to communicate with the first library
5 manager, the second library manager, and a host computer.
6 a control module configured to direct the first library manager to reject data
7 transaction commands while maintaining the storage device in a state responsive to data
8 transaction actions; also suspend the library management function of the first library
9 manager; and activate the library management function of the second library manager.
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11 2. The apparatus of claim 1, further comprising a timing module, the timing module
12 configured to receive a timeout directive, and to initiate a timeout period.
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14 3. The apparatus of claim 2, wherein the control module is configured to suspend the
15 library management function of the first library manager responsive to the completion of
16 the timeout period.
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18 4. The apparatus of claim 1, wherein the first library manager is configured to store an
19 accepted data transaction command.
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21 5. The apparatus of claim 4, wherein the first library manager is configured to execute a
22 previously accepted data transaction command.
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24 6. The apparatus of claim 4, wherein the control module is configured to terminate the
25 processing of the previously accepted data transaction command.
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1 7. The apparatus of claim 4, wherein the control module is configured to transfer
2 accepted data transaction commands from the first library manager to the second library
3 manager.

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5 8. The apparatus of claim 1, wherein the first library manager is configured to accept a
6 select data transaction command type.

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8 9. The apparatus of claim 1, wherein the control module is configured to terminate the
9 library manager transition.

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11 10. An apparatus for switching the library manager of a data library, the apparatus
12 comprising:

13 a storage device responsive to a first library manager and a second library
14 manager, wherein the storage device retrieves and stores data; and
15 a transition manager module configured to receive a directive for a library
16 manager transition; command the first library manager to reject data transaction
17 commands; maintain the storage device responsive to data transaction commands; and
18 command the second library manager to receive data transaction commands.

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20 11. The apparatus of claim 10, wherein the first library manager is further configured to
21 accept a select data transaction command type.

- 1 12. An apparatus for switching library managers, the apparatus comprising:
- 2 means for managing a data transaction command;
- 3 means for completing a data transaction command;
- 4 means for rejecting a data transaction command;
- 5 means for maintaining the completing means responsive to data transaction
- 6 commands;
- 7 means for suspending the library management functions of a first managing
- 8 means; and
- 9 means for activating the library management functions of a second managing
- 10 means.
- 11
- 12 13. The apparatus of claim 12, further comprising means for storing the data transaction
- 13 command;
- 14
- 15 14. The apparatus of claim 12, further comprising means for executing the stored data
- 16 transaction command.

- 1 15. A system for switching library managers, the system comprising:
 - 2 a first library manager configured to accept and execute a data transaction
 - 3 command;
 - 4 a second library manager configured to accept and execute the data transaction
 - 5 command;
 - 6 a storage device configured to receive the data transaction command from the first
 - 7 library manager and the second library manager; and
 - 8 a transition manager module configured to receive a directive for a library
 - 9 manager transition; direct the first library manager to reject data transaction commands
 - 10 while maintaining the storage device responsive to data transaction commands; suspend
 - 11 the library management function of the first library manager; and to activate the library
 - 12 management function of the second library manager.
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- 14 16. The system of claim 15, wherein the first library manager is further configured to
- 15 accept a select data transaction command type during a library manager transition.
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- 17 17. The system of claim 15, wherein the transition manager module is configured to
- 18 notify a host computer that the library manager transition is in process.
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- 20 18. The system of claim 15, wherein the transition manager module is configured to
- 21 suspend the library manager transition; to direct the first library manager to accept data
- 22 transaction commands; and notify the host computer that the first library manager is
- 23 accepting data transaction commands.
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- 1 19. A method for switching library managers, the method comprising:
 - 2 rejecting a data transaction command;
 - 3 maintaining a storage device responsive to the data transaction command;
 - 4 suspending the library management functions of a first library manager; and
 - 5 activating the library management functions of a second library manager.
- 6
- 7 20. The method of claim 19, further comprising notifying a host computer that the
- 8 library manager transition is in process.
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- 10 21. The method of claim 19, further comprising informing a host computer that the
- 11 library manager transition is complete.
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- 13 22. The method of claim 19, further comprising executing a previously accepted data
- 14 transaction command.
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- 16 23. The method of claim 22, further comprising terminating execution of the previously
- 17 accepted data transaction command.
- 18
- 19 24. A computer readable storage medium comprising computer readable program code
- 20 for switching library managers, the program code configured to:
 - 21 reject a data transaction command for access to a storage device, the storage
 - 22 device configured to complete data transaction commands;
 - 23 maintain the storage device responsive to the data transaction command;
 - 24 suspend the library management functions of a first library manager; and
 - 25 activate the library management functions of a second library manager.
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- 1 25. The computer readable storage medium of claim 24, wherein the program code is
2 further configured to notify a host computer that a library manager transition is in process.
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4 26. The computer readable storage medium of claim 24, wherein the program code is
5 further configured to inform the host computer that the library manager transition is
6 complete.
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8 27. The computer readable storage medium of claim 24, wherein the program code is
9 further configured to accept a select data transaction command type.
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11 28. The computer readable storage medium of claim 24, wherein the program code is
12 further configured to store an accepted data transaction command.
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14 29. The computer readable storage medium of claim 28, wherein the program code is
15 further configured to execute the accepted data transaction commands.
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17 30. The computer readable storage medium of claim 30, wherein the program code is
18 further configured to terminate the execution of the accepted data transaction command.